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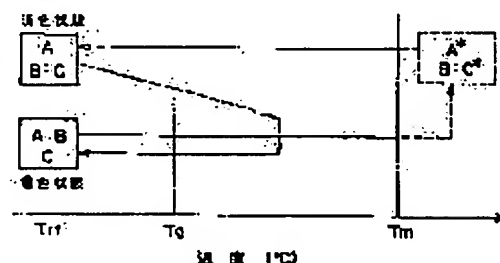
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(54) THERMOSENSIBLE RECORDING MEDIUM AND RECORDING METHOD

(57)Abstract:

PURPOSE: To obtain a rewritable recording medium having a high contrast ratio in its coloring and fading conditions and capable of utilizing the background indication by including a coloration compound and a developer having a higher glass transit temperature than an ordinary temperature, and conducting recording and erasing of information based upon the reversible crystalline and non-crystalline substance.

CONSTITUTION: This medium includes a coloration compound and a developing agent having a glass transition temperature of 25°C or higher, and recording and erasing operations of information are conducted on the basis of a reversible transit of a crystalline and a non-



crystalline states. In addition, blending a matrix agent for lowering the density of the coloration compound and the developer agent allows the enhanced achievement of contrast. Since a much blending quantity of the developer agent is set, the temperature is effective in order for decreasing an energy quantity to be supplied for dissolving the recording material. At a room temperature T_{rt} , the phases of the coloration compound A and developer agent B and the phase of the reversing agent C are separated, and in a coloring condition, the system loses its color in a higher heating condition than the melting point of T_m , and rapidly cooled and then solidified. On the contrary, the system becomes a coloring condition as it is heated higher than the glass transition temperature T_g .

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